

Optimization of seepage rate through a triangular core

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Abstract

Seepage through a triangular dam core is studied by the hodograph method. Core slope providing minimal seepage rate at prescribed head value and core cross-sectional area is found. A simple flow pattern involving seepage face, constant head, and non-flow boundaries is assumed. Seepage through a cake of low permeable sediments deposited along the bottom of a channel is treated analogously. © 1997 by John Wiley & Sons, Ltd.

Keywords

Dam core, Hodograph method, Minimization, Seepage